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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket 960296.97486
 First Inventor Cynthia a. Henson
 Title MODIFIED BARLEY A-GLUCOSIDASE
 Express Mail Label No. ET924501655US

APPLICATION ELEMENTS

See MPEP Chapter 600 concerning utility patent application contents.

ADDRESS TO: Commissioner for Patents
 Box Patent Application
 Washington, D.C. 20231

1. ☒ Fee transmittal Form
 (Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status
 See 37 CFR 1.27.
3. ☒ Specification [Total Pages 15]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross References to Related Applications
 - Statement Regarding Fed Sponsored R&D
 - Reference to sequence listing, a table
 or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 USC 113) [Total Sheets 6]
 5. Oath or Declaration [Total Pages 3]
 a. ☒ Unexecuted (original or copy)
 b. ☐ Copy from prior Application (37 CFR 1.63(d))
 (for continuation/divisional with Box 17 completed)
 i. ☐ DELETION OF INVENTOR(S)
 Signed Statement attached deleting inventor(s)
 named in prior application, see 37 CFR 1.63(d)(2)
 and 1-33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or
 Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
 (if applicable, all necessary)
 a. ☐ Computer Readable Form (CRF)
 b. Specification Sequence Listing on
 i. ☐ CD-ROM or CD-R (2 Copies); or
 ii. ☐ Paper
 c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & documents)
 10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
 (where there is an assignee)
 11. ☐ English Translation Document (if applicable)
 12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS
 Citations
 13. ☐ Preliminary Amendment
 14. ☒ Return receipt postcard (MPEP 503)
(Should be specifically itemized)
 15. ☐ Certified copy of priority Document(s)
(if foreign priority is claimed)
 16. ☐ Other:

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information: and in a preliminary amendment or in an
 Application Data Sheet under 37 CFR 1.76

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application no. _____
 Prior application information: Examiner: _____ Group/Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied
 under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by
 reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☒ Correspondence address below

NAME Nicholas J. Seay
 Quarles & Brady LLP
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 P O Box 2113
 CITY Madison STATE WI ZIP CODE 53701-2113
 COUNTRY USA TELEPHONE 608/251-5000 FAX 608/251-9166

Name Nicholas J. Seay Registration No. (Attorney/Agent) 27386
 Signature [Signature] Date: January 14, 2002

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on
 the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
 DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. GBMAD153893 322283

FEE TRANSMITTAL FOR FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT \$ 824.00

Complete if Known

Application Number	
Filing Date	
First Named Inventor	Cynthia A. Henson
Group Art Unit	
Examiner Name	
Attorney Docket Number	960296.97486

METHOD OF PAYMENT (check one)

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit Account Number 17-0055
Deposit Account Name Quarles & Brady LLP

- ☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

- ☐ Applicant claims small entity status See 37 CFR 1.27

2. ☐ Payment Enclosed:

☐ Check ☐ Credit Card ☐ Money Order ☐ Other

FEE CALCULATION**1. BASIC FILING FEE**

Large Fee Code	Entity	Small Fee Code	Entity	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	740
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1) (\$) 740.00

2. CLAIMS

Total Claims	Extra	Fee from below	Fee Paid
9	-20**	X	
Independent 4	-3**	X	84

Multiple Dependent Claims

** or number previously paid, if greater, For reissues see below

Large Fee Code	Entity	Small Fee Code	Entity	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim
109	84	209	42	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 84.00

FEE CALCULATION (continued)**3. ADDITIONAL FEES**


Large Fee Code	Entity	Small Fee Code	Entity	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920	112	920	Requesting publication of SIR prior to Examiner action	
113	1,840	113	1,840	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	480	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,980	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive unavodably abandoned application	
141	1,280	241	640	Petition to revive unintentionally abandoned application	
142	1,280	242	640	Utility issue fee (for reissue)	
143	480	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR 1.125(a))	
146	740	246	370	For each additional invention to be examined (37 CFR 1.125(b))	
179	740	270	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify) _____

Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 0.00

SUBMITTED BY

Typed or Printed Name Nicholas J. Seay
Signature 

Registration No. 27,386
(Attorney/Agent)

Complete (if applicable)

Telephone 608/251-5000
Date January 10, 2002



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Chicago, Illinois (Quarles & Brady LLC)
Milwaukee and Madison, Wisconsin

January 10, 2002

Commissioner for Patents
Box Patent Application
Washington DC 20231

Re: Filing Patent Application

Dear Sir:

Enclosed for filing please find a patent application entitled:

MODIFIED BARLEY α -GLUCOSIDASE

by Cynthia A. Henson
Elizabeth H. Muslin
Suzanne E. Clark

The undersigned hereby certifies that this document is being deposited with the United States Postal Service today, January 10, 2002, by the "Express Mail" service, utilizing Express Mail label number ET924501655US, addressed to: Commissioner for Patents, Box Patent Application, Washington, DC 20231.

Please indicate receipt of this application by returning the attached postcard with the official Patent and Trademark Office receipt and serial number stamped thereon.

Respectfully submitted,

Enclosures
QBMAD\322282